

10 Rec'd PCT 19 JUL 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
WO 03/062771 A1

(51) International Patent Classification⁷: G01H 1/00,
G07C 3/00, G01M 13/00

Elmvägen 11, S-645 92 Strängnäs (SE). LINDBERG,
Jarl-Ove [SE/SE]; Utsiktsvägen 32, S-645 42 Strängnäs
(SE).

(21) International Application Number: PCT/SE03/00088

(74) Agent: ALBIHNS STOCKHOLM AB; P.O. Box 5581,
S-114 85 Stockholm (SE).

(22) International Filing Date: 20 January 2003 (20.01.2003)

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0200147-7 18 January 2002 (18.01.2002) SE
0200215-2 25 January 2002 (25.01.2002) SE
60/384,118 31 May 2002 (31.05.2002) US

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

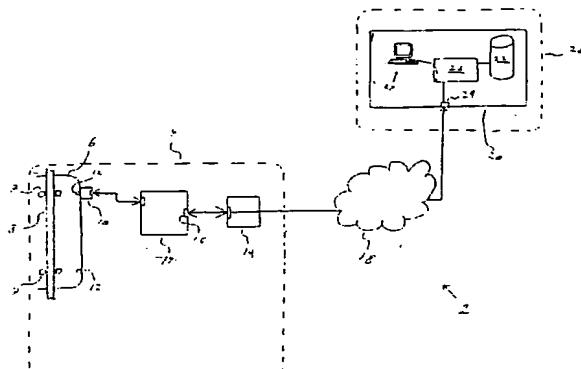
(71) Applicant (for all designated States except US): SPM INSTRUMENT AB [SE/SE]; Box 4, S-645 21 Strängnäs (SE).

Published:

— with international search report

[Continued on next page]

(54) Title: AN ANALYSIS SYSTEM



WO 03/062771 A1

(57) Abstract: An apparatus for analysing the condition of a machine having a rotating shaft, comprising: at least one input for receiving measurement data from a sensor for surveying a measuring point of the machine; said measurement data being dependent on rotation of said shaft; data processing means for processing condition data dependent on said measurement data; said data processing means comprising means for performing a plurality of condition monitoring functions (F1, F2, Fn); wherein at least one of said plurality of condition monitoring functions (F1, F2, Fn) is a restricted function having a disabled state and an enabled state; said disabled state prohibiting complete execution of said condition monitoring function; and said enabled state allowing execution; wherein the apparatus is arranged to allow a limited amount of use of the at least one restricted condition monitoring function; and wherein at least one of said plurality of condition monitoring functions (F1, F2, Fn) is an unrestricted function; the apparatus further comprising a logger for registering use of said at least one restricted condition monitoring function (F1, F2, Fn); wherein the apparatus is arranged to change the state of a restricted condition monitoring function from the enabled state to the disabled state when said registered use indicates that the limited amount of use has been spent; and the apparatus is arranged to allow execution of the at least one unrestricted function irrespective of amount of use of the at least one unrestricted function.